

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Bateman et al.)	
) Art Unit:	N/A
)	
Serial Number: N/A) Examiner:	N/A
)	
Filed: Herewith) Atty Docket:	DEH073

For: Mass Spectrometer

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to Rule 37 C.F.R. §1.51(b), §1.56, §1.97, and §1.98, this Information Disclosure Statement is submitted in the above-identified patent application. A listing of documents to be published on the face of any patent granted from this application is submitted herewith on Form PTO-1449 with a copy thereof.

**CONCISE STATEMENT OF RELEVANCY
(Non-English Language Documents Only)**

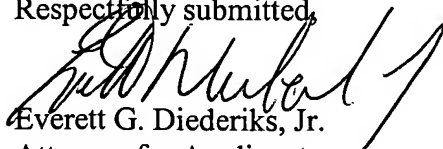
The foreign language references cited in the Information Disclosure Statement generally pertain to ion guides and mass spectrometers. Abstracts in English are being provided to aid the Examiner in considering the potential relevancy of the cited documents.

CERTIFICATION

This Information Disclosure Statement is submitted within three months of the filing date of and/or prior to the issuance of a first Office Action in the above-identified U.S. patent application.

The Examiner is requested to acknowledge consideration of the information provided in this paper in accordance with prescribed procedures.

Respectfully submitted,


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Date: April 22, 2004

FORM PTO 1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. DEH073	SERIAL NO. N/A
	APPLICANT Bateman et al.	
	FILING DATE Herewith	GROUP N/A

U.S. Patent Documents

Examiner Initial	Document Number	Date	Patentee/Applicant	Class	Subclass	Filing Date if Appropriate
	3,621,242	11/71	FERGUSON ET AL.			
	4,072,862	02/78	MAMYRIN ET AL.			
	4,904,872	02/90	GRIX ET AL.			
	5,077,472	12/91	DAVIS			
	5,206,506	04/93	KIRCHNER			
	5,245,192	09/93	HOUSEMAN			
	5,280,175	01/94	KARL			
	5,572,035	11/96	FRANZEN			
	5,654,543	08/97	LI			
	5,661,300	08/97	HANSEN			
	5,811,800	09/98	FRANZEN ET AL.			
	5,818,055	10/98	FRANZEN			
	5,847,386	12/98	THOMSON ET AL.			
	5,880,466	03/99	BENNER			
	5,905,258	05/99	CLEMMER ET AL.			
	6,107,628	08/00	SMITH ET AL.			
	6,348,688	02/02	VESTAL			
	6,417,511	07/02	RUSS, IV ET AL.			
	6,483,109	11/02	REINHOLD ET AL.			
	6,545,268	04/03	VERENTCHIKOV ET AL.			
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	6,642,514	11/03	BATEMAN ET AL.			
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	2002/0063207	05/02	BATEMAN ET AL.			
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	2002/0113207	08/02	LEE ET AL.			
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Foreign Patent Documents

Examiner Initial		Document Number	Publication Date	Country/Agency	Class	Subclass	Translation	
							Yes	No
		2,281,405	03/00	Canada				
		1,271,138	01/03	EP				
		11-307040	11/99	Japan				
		2000-113852	04/00	Japan				
		2000-123780	04/00	Japan				
		2,315,364	01/98	UK				
		WO 92/14259	08/92	WO				
		WO 97/49111	12/97	WO				
		WO 02/43105	05/02	WO				

Other Documents (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

	Gerlich, "Rf Ion Guides", Encyclopedia of Mass Spectrometry, Vol. 5 Chemistry and Physics of Gas-Phase Ions, pp. 1-34, 2003.
	Giles et al., "Evaluation of a Stacked-Ring Radio Frequency Ion Transmission Device at Intermediate Pressures", ASMS, 2001.
	Luca et al., "On the Combination of a Linear Field Free Trap With a Time-of-Flight Mass Spectrometer", Review of Scientific Instruments, Vol. 72, No. 7, pp. 2900-2908, 2001.
	Kim et al., "Design and Implementation of a New Electrodynamical Ion Funnel", Analytical Chemistry, Vol. 72, No. 10, pp. 2247-2255, 2000.
	Tolmachev et al., "Charge Capacity Limitations of Radio Frequency Ion Guides in Their Use for Improved Ion Accumulation and Trapping in Mass Spectrometry", Analytical Chemistry, Vol. 72, No. 5, pp. 970-978, 2000.
	Shaffer et al., "Characterization of an Improved Electrodynamical Ion Funnel Interface for Electrospray Ionization Mass Spectrometry", Analytical Chemistry, Vol. 71, No. 15, pp. 2957-2964, 1999.
	Shaffer et al., "An Ion Funnel Interface for Improved Ion Focusing and Sensitivity Using Electrospray Ionization Mass Spectrometry", Analytical Chemistry, Vol. 70, No. 19, pp. 4111-4119, 1998.
	Shaffer et al., "A Novel Ion Funnel for Focusing Ions at Elevated Pressure Using Electrospray Ionization Mass Spectrometry", Rapid Communications in Mass Spectrometry, Vol. 11, pp. 1813-1817, 1997.
	Shaffer et al., "A Novel Ion Funnel for Ion Focusing at Elevated Pressures", ASMS Book of Abstracts, pp. 375, 1997.
	Franzen et al., "Electrical Ion Guides", ASMS Book of Abstracts, pp. 1170, 1996.
	Guan et al., "Stacked-Ring Electrostatic Ion Guide", Journal American Society for Mass Spectrometry, Vol. 7, pp. 101-106, 1996.
	Gerlich et al., "Ion Trap Studies of Association Processes in Collisions of CH_3^+ and CD_3^+ with n- H_2 , p- H_2 , D_2 , and He at 80 K", The Astrophysical Journal, Vol. 347, pp. 849-854, 1989.
	Teloy et al., "Integral Cross Sections for Ion-Molecule Reactions. 1. The Guided Beam Technique", Chemical Physics, pp. 417-427, 1974.
	Gerlich, "Inhomogeneous RF Fields: A Versatile Tool For the Study of Processes With Slow Ions", Advances in Chemical Physics Series, Vol. 82, pp. 1-176, 1992.

Examiner	Date Considered
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Examiner: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.